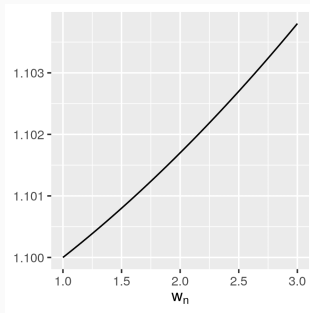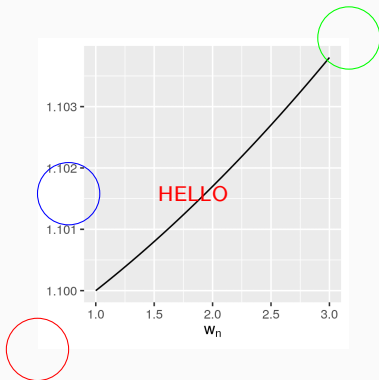# How does the IJ work? Data re-weighting.

Let's annotate this graphic using TikZ.

```
\begin{center}
\begin{minipage}{0.38\textwidth}
\includegraphics[width=\textwidth]{e_beta_w}
\end{minipage}
\end{center}
```

From now on, everything I'm going to do will be within the minipage.

```
\begin{tikzpicture}
    \node[anchor=south west,inner sep=0] (image) at (0,0) {
        \includegraphics[width=\textwidth]{e_beta_w}
    };
    \begin{scope}[x={(image.south east)},y={(image.north west)}]
        \draw[color=red] (0, 0) circle (0.1);
        \draw[color=green] (1.0, 1.0) circle (0.1);
        \draw[color=blue] (0.1, 0.5) circle (0.1);
        \node[color=red] (hello) at (0.5, 0.5) {HELLO};
    \end{scope}
\end{tikzpicture}
```

Source and further reading

Beamer:

- Google "beamer tutorial"
- https://warwick.ac.uk/fac/sci/physics/research/cfsa/people/pastmembers/wuensch/workshoplatex/beamertutorialkwuensch.pdf
- https://www.texdev.net/2014/01/17/the-beamer-slide-overlay-concept/

TikZ:

- https://www.overleaf.com/learn/latex/TikZ_package
- https://www.math.uni-leipzig.de/~hellmund/LaTeX/pgf-tut.pdf
- https://latexdraw.com/how-to-annotate-an-image-in-latex/
- https://tex.stackexchange.com/questions/9559/drawing-on-an-image-with-tikz